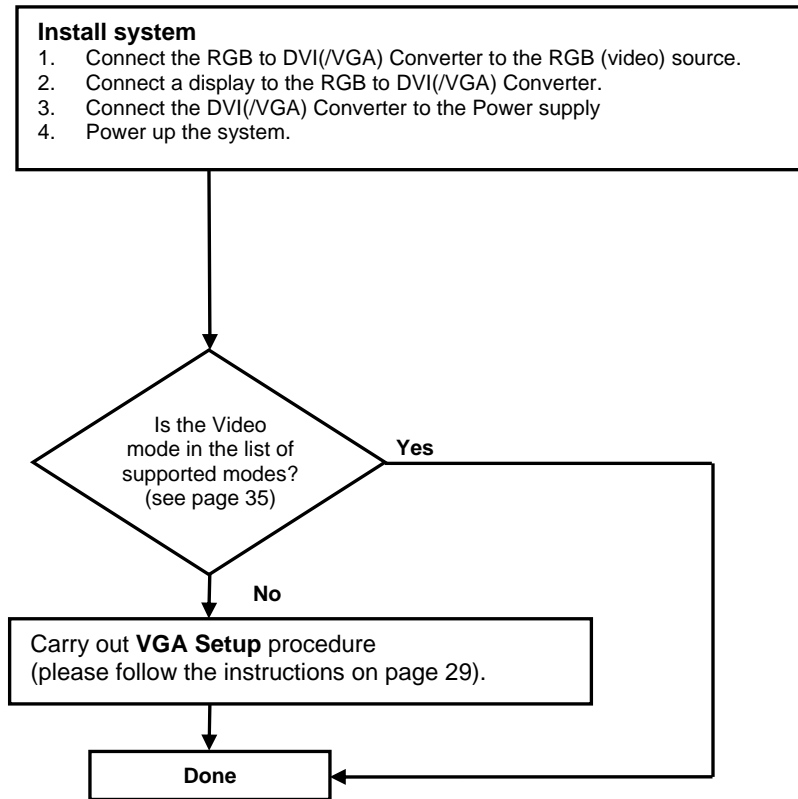


# 1 Quick Setup

This section briefly describes how to install your RGB to DVI(/VGA) Converter and optimize the video signals. Unless you are an experienced user, we recommend that you follow the full procedures described in the manual. The manual you can download on: [http://www.ihse.de/pdf/b238-4f\\_e.pdf](http://www.ihse.de/pdf/b238-4f_e.pdf). Refer to the command summary on page 10 when following this procedure. All mentioned pages in this Quick-Setup refer to this manual.



## 2 Installation

For first-time users, we recommend that you carry out a test placement, confined to a single room, before commencing full installation. This will allow you to identify and solve any cabling problems, and experiment with the VGA to DVI Converter more conveniently.

### 2.1 Package Contents

You should receive the following items in your VGA to DVI Converter package:

- VGA to DVI Converter unit.
- HD15male to DVI-I cable




- 5V DC universal power supply for VGA to DVI Converter.
- User manual (Quick Setup).
- German-type power cord.
- Infrared Remote Control (IR-RC)

If anything is missing, please contact Technical Support.

## 2.2 System Setup

To install your VGA to DVI Converter:

1. Switch off all devices.
2. Connect your TFT directly to the device.
3. **VGA:** Connect the graphic source to the input connectors using the VGA to DVI-I Cable.  
**DVI-A (VGA at DVI connector):** Connect the graphic source to the input connectors using the optional DVI-A to DVI-I Cable.  
**DVI-D:** Connect the graphic source to the input connectors using the optional DVI-D to DVI-I Cable.
4. Connect the 5V power supply to power the unit.  
 Only use the power supply originally supplied with this equipment or a manufacturer-approved replacement.
5. Power up the system.

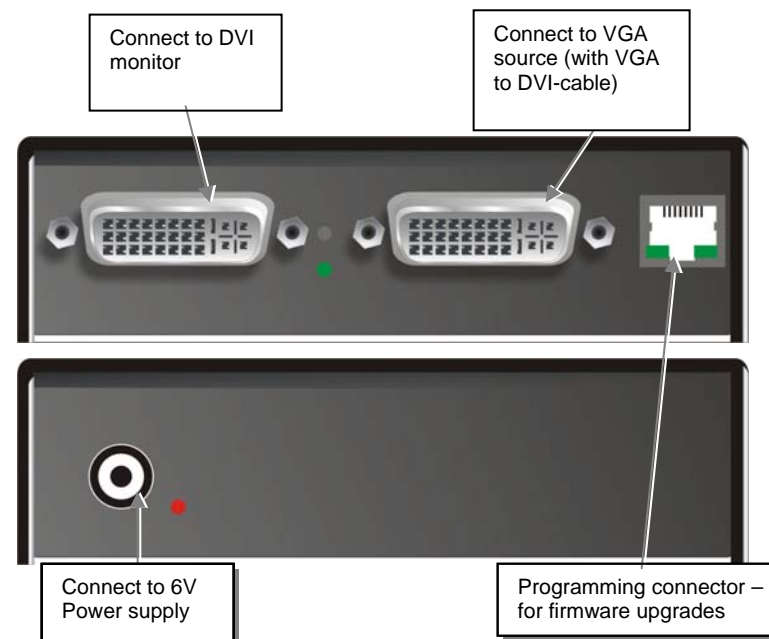
## 2.3 Connection Cable Requirements

To connect the VGA to DVI Converter to your graphic source you will need:

- **DVI-D:** DVI-D male/male
- **VGA:** Special VGA to DVI-I Cable HD15male-DVI-male
- **Power Supply**

Connect the supplied 5V/DC power supply to the **Plug** terminal on the rear of the VGA to DVI Converter.

## 3 Device View



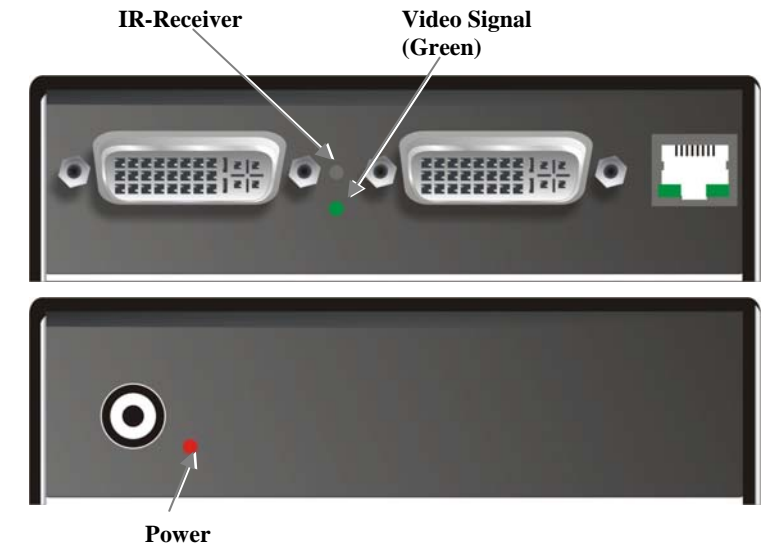
VGA to DVI Converter

## 3.1 Diagnostic LEDs

Each VGA to DVI Converter is fitted with two indicator LEDs: *Video Signal* and *Power*.

The *Power* LED is to right of the power supply connector. The *Video Signal* LEDs is right to the DVI Input connector.

The location of the LEDs is shown below:



Diagnostic LEDs on VGA to DVI Converter

LED	Appearance	Diagnostics
<b>Video Signal</b> (Green LED)	On	Attached and valid mode detected
	Off	No video signal or valid mode detected
<b>Power LED</b> (Green LED)	On	Device ready
	Off	Device not ready

## 3.2 Trouble Shooting

*There isn't a picture.*

Check the power supply connection at the VGA to DVI Converter. Is the *Device Ready* (Red LED) illuminated (see page 1)? If not, the internal power-supply may be damaged or there may be an internal error.

Check that you are using a supported video mode. At the VGA to DVI Converter, is the *Video Signal* LED illuminated? If not, please proof, whether the graphic card provides a picture. Often the graphic card shows no picture because of missing or wrong DDC information. Please check additionally, whether the graphic card requires an analogue DDC.

*There is horizontal jitter on the picture.*

The pixel clock and/or phase is misaligned.

*Characters are smeared.*

The phase is misaligned.

*Thin vertical lines are missing.*

The phase is misaligned.

## 4 Device Control

If you are using a VGA input stored in the internal table, no adjustment should be required. In other cases, you may need to optimize the output using the VGA to DVI Converter's on-screen display (OSD).

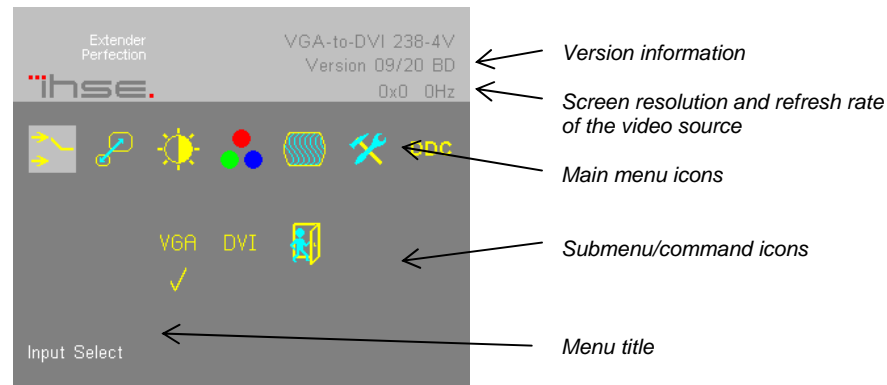


Figure 1 OSD Utility

You can adjust the following properties using the IR-Remote Control:

- Brightness/contrast
- Selection of Input Signal

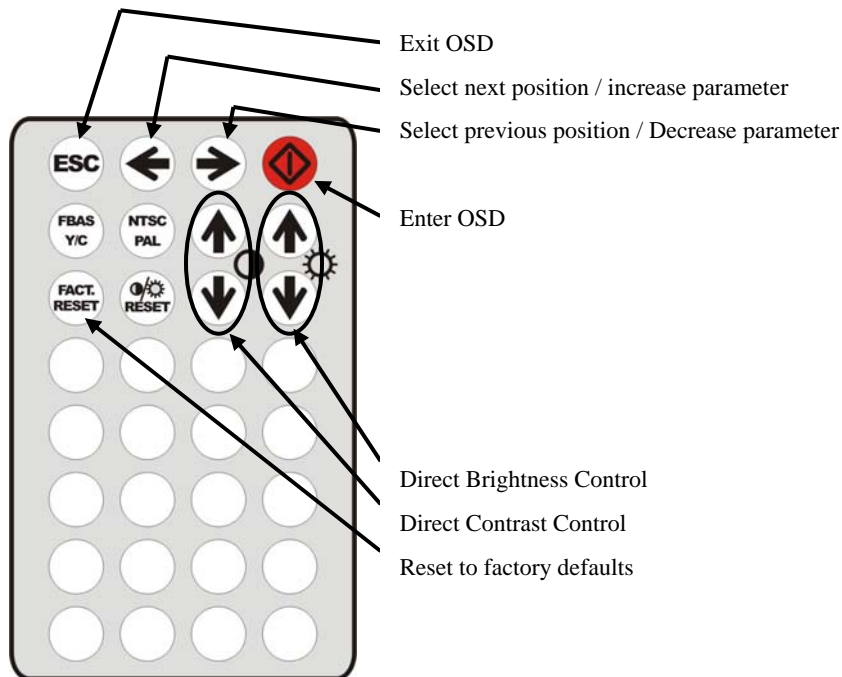
You can adjust the following properties using the OSD:

- Auto Configuration ON/OFF
- Color, Color Temperature adjustments
- Brightness/contrast
- Output Image Scaling and Sizing
- OSD operation, factory reset.
- DDC Settings

### 4.1 Opening the OSD

You can access the OSD by using the equipped Infrared Remote Control (IR-RC).

### 4.2 Usage of the Infrared Remote Control (IR-RC)



## 4.3 Supported Video Modes

Bezeichnung	Hres pixels	Vres lines	V-freq Hz	H-freq kHz	DotCLK MHz
DOS graphic Mode	640	350	69,6	31,3	25,0
Vesa Standard	640	350	85,1	37,9	31,5
VGA	640	400	56,3	24,7	21,0
VGA	640	400	69,6	31,3	25,0
Vesa Standard	640	400	85,1	37,9	31,5
Vesa Standard	640	480	60,2	31,5	25,3
Mac Mode	640	480	67,0	35,0	31,5
Vesa Standard	640	480	72,8	37,9	31,5
Vesa Standard	640	480	75,0	37,5	31,5
Vesa Standard	640	480	85,0	43,3	36,0
DOS Text Mode	720	400	69,6	31,5	28,1
Vesa Standard	720	400	85,0	37,9	35,5
NTSC progressive	720	480	59,9	31,5	27,0
PAL progressive	720	576	50,0	31,3	27,0
Vesa Standard	800	600	56,3	35,2	36,0
Vesa Standard	800	600	60,3	37,9	40,0
Vesa Standard	800	600	72,2	48,1	50,0
Vesa Standard	800	600	75,0	46,9	49,5
Vesa Standard	800	600	85,1	53,7	56,3
Mac Mode	832	624	75,1	49,7	55,5
Vesa Standard	1024	768	60,0	48,4	65,0
Vesa Standard	1024	768	70,1	56,5	75,0
SUN Mode	1024	768	72,0	57,8	75,2
Vesa Standard	1024	768	75,0	60,0	78,8
Vesa Standard	1024	768	85,0	68,7	94,5
DMT1185 Mode	1152	864	70,0	63,8	100,0
Vesa Standard	1152	864	75,0	67,5	108,0
SUN Mode	1152	900	66,0	61,8	94,5
Vesa CVT16:9	1280	720	60,0	44,8	74,5
WXGA	1280	768	60,0	48,1	81,2
WXGA	1280	768	60,2	47,8	80,0
WXGA16:10 CVT	1280	800	59,8	49,7	83,5
Vesa Standard	1280	960	60,0	60,0	108,0
DMT127A	1280	960	75,0	75,0	126,0
Vesa Standard	1280	960	85,0	85,9	148,5
TV	1280	1024	50,0	53,4	90,0
Vesa Standard	1280	1024	60,0	64,0	108,0
SUN mode	1280	1024	66,0	71,7	115,8
SGI	1280	1024	72,0	76,7	128,8
HP Workstation B123L	1280	1024	72,0	78,1	135,0
Vesa Standard	1280	1024	75,0	80,0	135,0
Vesa Standard	1280	1024	85,0	91,1	157,5
TV Mode16:9	1360	765	60,1	47,6	84,5
Plasma TV16:9	1360	768	60,0	47,7	85,5
NVIDIA4:3	1400	1050	59,8	65,2	121,5
TV Mode16:10	1440	900	60,0	55,6	89,0
TV Mode16:9	1600	900	59,9	55,8	118,8
SGI	1600	1024	72,0	77,6	158,3
UXGA genlocked	1600	1200	50,0	75,0	138,0
Vesa Standard	1600	1200	60,0	75,0	162,0
UXGA reduced blank	1600	1200	60,1	75,4	140,6
WSXGA+16:10 DVI	1680	1050	59,9	64,7	119,0
WSXGA+16:10 VGA	1680	1050	60,0	65,3	146,3
TV Mode16:9	1920	1080	50,0	56,4	148,5
TV Mode16:9	1920	1080	59,9	66,6	138,5
EIA861B16:9	1920	1080	60,0	67,5	148,5
WUXGA	1920	1200	60,0	74,0	154,0

**VGA to DVI Converter**  
**(K238-4V)**  
**(Quick Setup)**